## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Mitsuaki OSHIMA et al.

Serial No. 09/677,421

Filed October 5, 2000

OIPE CO

Mail Stop: RCE

Docket No. 2000 1388

Group Art Unit 2634

Examiner Dac V. Ha

COMMUNICATION SYSTEM

Confirmation No. 6142

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEES FOR THIS PAPER TO DEPOSIT ACCOUNT NO. 23-0975

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Patentees request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

- [X] each U.S. Patent and U.S. Patent application publication;
- each reference previously cited in the international application PCT/; and/or
- [] each reference previously cited in prior parent application Serial No.

1a. [X] This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. [] This Information Disclosure Statement is submitted

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b.

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

- (1) [] the certification of paragraph 2 below is provided, or
- (2) [] the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.
- 1c. [] This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 2. It is hereby certified
  - a. [] that each item of information contained in this Information Disclosure

    Statement was first cited in any communication from a foreign patent office in a

    counterpart foreign application not more than three months prior to the filing of
    the Statement, or
  - b. [] that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.
- 3. [X] Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.
  - In the J.A.C. Bingham reference, pages 9 and 10 are advertising pages and have been omitted.
- 4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:

- a. [] a full or partial English language translation submitted herewith,
- b. [X] a foreign patent office search report (in the English language) submitted herewith,
- c. [] the concise explanation contained in the specification of the present application at page,
- d. [X] the concise explanation set forth in the attached English language abstract,
- e. [X] the concise explanation set forth below or on a separate sheet attached to the reference:

JPA H05-218978 corresponds to U.S. Patent, No. 5,243,629

JPA 2-141049 corresponds to U.S. Patent No. 4,940,954.

Japanese Patent No. 3-69295 corresponds to U.S. Patent No. 5,128,758

Japanese Patent No. 2-260726 corresponds to U.S. Patent No. 5,038,402

EP 0365431 corresponds to U.S. Patent No. 5,311,550

- 5. [X] A foreign patent office search report citing one or more of the references is enclosed.
- 6. [] <u>Statement Under 37 CFR 1.704(d)</u>

b

Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Mitsuaki OSHIMA et al

effred R. Filipek

Registration No. 41,471

Attorney for Patentees

JRF/fs Washington, D.C. 20006-1021 Telephone (202) 721-8200 Facsimile (202) 721-8250 July 11, 2005

Sheet 1 of 4	=							
U.S. DEPARTMENT OF COMMERCE RATENT AND TRADEMARK OFFICE LIST REFERENCES CITED BY APPLICANT(S) Use several sheets if necessary Day Submitted to PTO: July 11, 2005    Cotober 5, 2000   GROUP 2634    CLASS   SUBCLASS   FILING DATE								
APPLICANT   Mitsuaki OSHIMA et al.								
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AK 58-161427 9-26-83 Japan abstract								
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AQ J. A. C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, Vol. 28, May 1990, pages 5-8 and 11-14	J. A. C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, Vol. 28, May 1990, pages 5-8 and 11-14							
EXAMINER DATE CONSIDERED	$\dashv$							

Sheet 2 of 4 INFORMATION DISCLOSURE STATEMENT											
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE				ATTY DOC 2000_13		SERIAL NO. 09/677,421					
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	AC	4,817,192	3-28-89	Phi	llips et al.						
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	AO  B. Hirosaki, "An Orthogonally Multiplexed QAM System Using the Discrete Fourier Transform", IEEE Transactions on Communications, Vol. Com-29, No. 7, July 1981, pages 982-989										
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Sheet 3 of 4			INFORMA	TION DISCLOSURE STATEMENT	г		<u>.</u>				
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LIST PAT	ENT AND	TRADEMARK OFFIC	E	APPLICANT Mitsuaki OSHIMA et al.							
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	AA	5,170,413	12-8-92	Hess et al.							
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copthis form with next communication to applicant.